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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/657,616	09/08/2000	HIROKATSU MIYATA	35.C14776	2679
5514	7590 06/28/2004		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			VO, HAI	
30 ROCKEFT NEW YORK	ELLER PLAZA , NY 10112		ART UNIT	PAPER NUMBER
			1771	

DATE MAILED: 06/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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* · 7		Application No.	Applicant(s)	U"			
		09/657,616	MIYATA, HIROKATSU				
	Office Action Summary	Examiner	Art Unit				
		Hai Vo	1771				
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the	correspondence address				
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a re- period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statu- reply received by the Office later than three months after the maili- red patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) did will apply and will expire SIX (6) MONTHS frow the cause the application to become ABANDON.	timely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	-						
1)⊠	Responsive to communication(s) filed on 03 i	May 2004.	·				
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>44-52</u> is/are pending in the applicati 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>44-52</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.					
Applicati	ion Papers						
10)	The specification is objected to by the Examir The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examiration.	ccepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is contact.	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	•			
Priority (under 35 U.S.C. § 119						
12) <u></u> a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the pri application from the International Bure See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been recei au (PCT Rule 17.2(a)).	ation No ved in this National Stage				
Attachmen	nt(s)						
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:					

Art Unit: 1771

1. The double patenting rejections are maintained.

2. A new ground of rejection is made in view of Ozin et al (US 6,027,666) and Katz (US 6,423,770).

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 44-52 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-63 of copending Application No. 09/478,884 substantially as set forth in the 01/28/2004 Office Action. Applicant argues that none of the claims of the '884 Application recites a polymer with two or more adjacent methylene groups in a repeating unit. The examiner disagrees. In the 02/18/04 amendment associated with the '844 application, claim 9 recites the first portion containing polyimide which is exactly the same material being used in the present invention. Like material has like property. Therefore, it is not seen that the first portion would have a chemically structure different than that of the '844 application. This is in line with

Art Unit: 1771

<u>In re Spada</u>, 15 USPQ 2d 1655 (1990) which holds that products of identical chemical composition can not have mutually exclusive properties.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 44- 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozin et al (US 6,027,666) in view of Katz (US 6,423,770). Ozin discloses a mesostructured material for use in optoelectronics having a film of tubular mesopores formed on a high density polyethylene (HDPE) substrate (column 5, lines 59-64; column 9, lines 22-25). It is known in the art that polyethylene contains a sequence of two or more adjacent methylene groups in a molecular structure of the repeating unit. Ozin teaches the mesopores extending parallel to a major surface of the film (claim 24, column 8, lines 20-30). Likewise, the tubular pores are aligned uniaxially and extend alongside a boundary surface between the film and the substrate. Ozin discloses that the mesostructured material contains silicon (column 7, lines 25-27). Ozin discloses the mesostructured material being formed by hydrolyzing a silicone alkoxide in the presence of surfactant (column 5, lines 26-34). Ozin does not specifically disclose the polymer made up of the substrate, having at least one imide bond in a repeating

Art Unit: 1771

unit of the polymer. Katz teaches a silicate material with designated porosity has many applications in the optical and electronics industries. Katz teaches the porous silicate being used in combination of the polyimide substrate (example 5). Therefore, It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the polyimide film for the polyethylene film of the Ozin invention for better strength and improved structural stability.

Neither Ozin nor Katz specifically discloses the substrate comprising a Langmuit-Blodgett film. However, it is a product-by-process limitation not as yet shown to produce a patentably distinct article. It is the examiner's position that the structure of Ozin as modified by Katz is identical to or only slightly different than the claimed structure prepared by the method of the claim, because both articles are formed from the same materials, having structural similarity. The structure comprises a film of tubular mesopores formed on a polyimide substrate. The mesopores extend parallel to a major surface of the film. The surfactant is contained in the mesopore structure. It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Ozin/Katz.

Ozin does not specifically disclose the number of adjacent methylene groups in the repeating unit of the polymer and location of the sequence of

Art Unit: 1771

adjacent methylene groups within the polymer. However, since the claims are unspecific about the molecular structure of the polymer and Ozin as modified by Katz is using polyimide resin, the same material to form the first portion of the structure as Applicant, it is not seen that the number of adjacent methylene groups in the repeating unit of the polymer and specific location of the sequence of adjacent methylene groups within the polymer are different than those as presently claimed. Like material has like property. This is also in line with *In re* **Spada**, 15 USPQ 2d 1655 (1990).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 1771

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on M,T,Th, F, 7:00-4:30 and on alternating Wednesdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HV

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SUPERVISORY PATENT EXAMINER
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